

THE TECH

DAILY

VOL. XXIX. NO. 50.

BOSTON, MASS., FRIDAY, NOVEMBER 26, 1909

PRICE ONE CENT

VENTILATING SYSTEMS AT TECH INADEQUATE

Overcrowded Conditions and Lack of Proper Equipment Responsible

Ventilation in several of the lecture and recitation rooms of the Institute has again become a subject of controversy. During the past two days facts have been secured from various members of the faculty and student body relative to the circulation of pure air in Rogers, Walker, and Lowell buildings as follows:

The only means of providing artificial circulation of air in Rogers building is a small blow pump in the basement and a small exhaust fan in Room 33. The pump in the basement supplies air to only two rooms, the main library and Huntington hall. There is but one inlet in Huntington hall and this inlet is but six inches square. When the weather is not too cold the windows in the hall can be opened at the bottom allowing air to come up through vents in the floor. Frequently the forced draft is cut off from the hall altogether and directed into the library where two inlets 18 inches x 24 inches afford ingress. But one of these inlets is used ordinarily. The fan in room 33 affects that room only. An analysis of the air of various class rooms on the second, third, and fourth floors of this building has shown as many as 14 parts of carbon dioxide gas in 10,000 parts of air. Nine parts of carbon dioxide in 10,000 parts of air is considered fairly good.

Walker building, the pioneer building of Boston to be supplied with a pump air circulating system, is supplied by pumps in the basement which force the air through flues in the walls into various rooms. Rooms 22 and 23 were considered at one time to be the best ventilated lecture rooms in this vicinity and an analysis of the air (the sample was taken twenty minutes after the beginning of lecture) showed nine parts in 10,000 parts of air to be carbon dioxide. A test made last year showed 11 parts to be carbon dioxide. Room 22 seats 257 and room 23 seats 228 men. The only method used to ventilate these rooms during a lecture, except in hot weather, are the fans in the basement. As a rule the windows are tightly closed. The temperature in room 23 before a lecture, has been found to be about 60 degrees. Within 20 minutes the temperature had risen to 76 degrees owing to the heat give off by the bodies of the men present. A member of the faculty noticed while descending the stairs of Walker building just as the students were dismissed from a lecture in room 23 that their clothes were saturated with foul air, the odor of which clung to them until they passed down into the lower hall.

The Kidder laboratory is ventilated by two large, and four 18 inches x 24 inches inlets, and the air passes out through the hoods. But the hoods are working poorly and it has been found necessary to install auxiliary fans. During the past few days the classes have been experimenting with very strong selling compounds halogens and, in spite of the fact that most of this work was carried on under the hoods, conditions have been most tryin.

Most of the rooms in this building have been resealed or remodeled at least once and none of the rooms used as laboratories on the south side of the second and third floor were originally intended for the purpose.

Lowell building has exhaust and pump fans to keep the air moving. The building is built on stilts and air enters through vents in the floors in some of the rooms. These fans do not seem to

(Continued on page 2.)

HANDICAP CROSS-COUNTRY RACE TOMORROW

Three New Cups Awarded--- Lorenz, Ex-Record Holder, Is to Run.

Considerable interest has been aroused in the handicap cross-country race tomorrow afternoon. The race starts near Highland Station in West Roxbury and goes over hills, down dales, and through woods, and also gives some good road work. The course is admirably suited for the race, and much pleasure can be derived from the contestants.

The main purpose of the race is to stimulate cross-country work at the Institute and to bring out new material. The handicaps are time handicaps, every man running over the full distance, which is about eight miles. The four men making the best time are awarded the insignia etc. Most every year some new men win these letters; last year two freshmen, H. Benson and E. Ferry received them.

Three beautiful cups are presented by E. H. Lorenz 1905, R. Ellis 1909, F. H. Hunter 1902, and A. R. Hunter 1908, to the man making best time, and one each to the two men finishing first and second. It will be interesting to note that Mr. Lorenz is to run with the fellows. He will not effect their time or places; but being holder of the record up to last year, when it was broken by H. Howland 1909, he will probably go after it again.

PROF. R. H. RICHARDS TALKS ON CLASSIFIERS

Mining Engineering Societies Of Tech. and Harvard Hold Meeting

Professor R. H. Richards, head of the Mining Engineering Department, gave a lecture before the combined Mining Engineering Societies of Harvard and Technology in the Harvard Union. Professor Richards intended to supplement his lecture with pictures of mine machinery showing the improvements that have been made in the last fifteen years. Owing, however, to some misunderstanding in the arrangements no lantern was provided and he was forced to illustrate his lecture by diagrams on the black board.

Professor Richards first divided the handling of ore while undergoing processes for its concentration into three distinct steps; the first, that of crushing the ore; the second, screening and classifying it; the third, running it through jigs and on the round table etc.

The first practical classifier was called the Hogtrough, on account of its resemblance to one. Although this was the first practical classifier it was not positive in its action and could not be relied upon to give uniform results. The next machine to be put on the market was the Evans classifier. This was a great improvement over the older one as it was the standard in the Anaconda, Boston and Montana, and Calumet and Heckla mines.

In closing Professor Richards spoke of his pulsating classifier, and pulsating suction jig and their proper uses.

After the lecture refreshments were served in the lecture room.

BIG JOINT CONCERT OF TECH AND WESLEYAN

Musical Clubs to Give Fine Program--Management Plans For Large Crowd

A big joint concert of Wesleyan and Technology Musical Clubs will be held tonight at Paul Revere Hall, Mechanics Building, on Huntington Avenue. Elaborate preparations have been in progress during the last few days, and everything indicates that it will be the best and biggest joint musical club concert ever given in which Tech has a prominent position.

Both clubs are first-class this year, and since the number of selections rendered by each is limited, a very select program has been obtained. The M. I. T. Musical Club has been working hard all the week, and every effort will be put forth to make this evening's entertainment a record breaker.

After the concert a reception will be held, and then dancing will continue until midnight. Paul Revere Hall is the finest hall for dancing in this vicinity, and is a favorite for Technology functions. The undertaking is quite extensive, and no expense has been spared by the management to have everything up to the highest standard.

Tickets have been on sale by club members during the past few days, and have been going rapidly among the alumni and students of both institutions. Tickets will be exchanged at the Union between twelve and two, and at the box office at the hall.

A BIG HOLIDAY

Thanksgiving Day was a grand holiday for Tech men. Only one or two persons were seen about the buildings during the morning, and they only on account of urgent business. All the main buildings of the Institute were closed, as was the entire Union. It was deemed best this year not to give a dinner at the Union, as past years have proven that about everybody at the Institute goes outside for the holiday. Last year only twenty men showed up for the Thanksgiving dinner. The majority of the men yesterday dined with friends or relatives in or about the city, and two or three private dinner parties were held down town, where special dinners were planned. The Technology Club on Newbury St. extended an invitation to all men who were strangers in the city, and a number enjoyed a spacious dinner that was provided there. In all a grand holiday, with a chance for everybody to put away cares for twenty-four hours and enjoy the sensation of a real man.

SCHOOLBOY RUNNERS

Every arrangement has been completed for the Boston Journal cross-country run for school boys, which starts this afternoon at three from Tech Field. Three individual prizes for the first three men and four cups for members of the winning team are offered.

Tech Field will be open for the athletes and spectators at 1.45 P. M., and programs will be furnished giving a complete list of entries. An official list of entries will be posted in the dressing-room with the numbers to be worn by each runner.

Any further information in regard to the race will be furnished in the sporting department of The Journal.

DR. GEORGE A. GORDON ADDRESSES STUDENTS

Vocational and Human Success the Topic---Be a Scientist, But Also a Man

At sharp two o'clock the first convocation of the year commenced with rising greeting of the students to President MacLaurin. Huntington Hall was well filled and the people standing on the outer edges gave evidence that nearly everyone was present at this, the first convocation under the new President. Dr. MacLaurin briefly stated that the speaker was to a man who was an exponent and a living example of those two ideals for which the Institute stood, namely knowledge and power. Without further introduction Dr. George A. Gordon of the New Old South began his talk.

Dr. Gordon took his text from Phidon-dying Socrates—This was the end of our friend, a man, of all his contemporaries of whom we have made proof, the best and the most just; a man who vocationally was a philosopher but to his friends was a man, whose largest success was being a human being and one who made the greatest impression as a man. From this text he said that he wanted to speak on the human and vocational side of man. Carlyle once took exception to Hares' "Life of Sterling" because he treated Sterling as a curate because Sterling was a curate only eleven months while he was a human being eight and thirty years. To-day there are many, many vocational successes before the public—journalists, scholars, business men and others—men who in their line are at the top but as regards human success are failures. In music, painting, science, statesmanship, even in war we find such types. Cases in which if we search for the real man nothing is found of that rich abundant manhood that should be so much desired.

(Continued on page 3.)

GRAND POP. CONCERT AT UNION TONIGHT

A grand Pop Concert will be held at the Union tonight. This entertainment will be slightly different than during the past weeks, and it will be conducted along the same lines as the big Pops concert held yearly in Symphony Hall.

The large room in the Union will be filled with small tables, and refreshments will be served at moderate prices. Throughout the evening an orchestra will render popular music. The seating capacity, which is necessarily small, will have to be lived up to, so the committee have been forced to restrict the number of tickets to 200. These tickets will be on sale in the Union at noontime until the supply is exhausted. The admission fee will be only 15 cents.

The entertainment part of the evening will be furnished by Mr. Sherwood Blodgett. Mr. Blodgett is a prestidigitator of prominence. He will render card tricks and sleight of hand work that will undoubtedly prove to be most mystifying.

CALENDAR.

Friday, November 26.

- 4:00—Basket Ball practice.
- 8:00—Joint Concert and Dance at Mechanics Building.
- 8:00—Pop Concert at Union Saturday, November 27.
- 2:22—Train leaves Back Bay station for Handicap Cross-country Runs.

C. C. Handicap Race Tomorrow

THE TECH.

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BOSTON, MASS., NOVEMBER 26, 1909

Ventilation at the Institute has been in demand for many years. Editors and humorists have taken a hand, but the results are not yet visible.

Ventilation is taught in five courses, if the names in the catalogue are evidence of their contents. Yet how have conditions changed or at least been improved? Almost nothing has been done in the construction line at all.

Now, as the winter months are coming, in which open windows are not pleasant neighbors, let the instructing staff, aided by the students, see to it that the admission of fresh air is allowed to rooms often used by large classes during the three previous hours. The sleepiness which comes during lectures is not often due to lack of sleep, or even induced by the lecturer, but is the natural result of inattention to hygienic conditions.

In one of the upper class drawing rooms experiment has shown distinctly that men work better in fresh air. In the news columns an interview deals clearly with conditions similar to these. Although the apparatus of the Institute is clearly inadequate, much depends on the personal attitude of the students.

A greater attention to class room conditions on the part of all will make the work of the coming winter easier and more interesting.

More than 5,000 poor people, old and young, yesterday had the rare enjoyment of a real Thanksgiving dinner through the bounty of the people of Boston dispensed through the Salvation Army. There were several thousand who sat down to the meal; there were others who went away laden with baskets; when the baskets were all gone, others carried in their arms packages of good things to eat. The grand total of those fed rises to 5,700. It is a good way to give thanks. The dinners in comfortable homes took on a new and delicious flavor because of it.

VENTILATING SYSTEMS

(Continued from page 1.)

be very efficient. This is shown by the fact that tests made in room 6, the lecture room, have shown that there is a stagnant spot in the center of the room where the air does not move. Conditions are not as bad in the other rooms of this building.

Ventilation in the Union lounging room is poor. The ventilators and the windows inadequate or poorly operated. It is no uncommon occurrence to see the large room filled with layers of smoke to which there is not the slightest perceptible motion and conditions are peculiarly trying when the room is crowded as it is at the Friday evening lectures.

It is interesting to note what different members of the faculty and instructing staff think about the ventilation in the Institute buildings. One professor said, "Unspeakably vile." Another frequently assures his classes that 23 Walker is admirably ventilated. The opinion of Mrs. Ellen H. Richards, an authority on air analysis and ventilation is worthy of consideration.

"The ventilation of Walker building as regards the circulation of air is really quite good considering the extra work which the fans are required to do on account of recitation rooms having been transformed into chemical laboratories, and the percentage of carbon dioxide present is not large. The heat emanating from the bodies of 300 men is sufficient to raise the temperature of a room the size of 23 Walker about 15 degrees in as many minutes and it is the heat which causes the oppressiveness which one experiences in the room. Room 23 seats nearly twice as many men as was originally intended. A remedy is the employment of a man whose duty it is to inspect the air and heat conditions in all the rooms once an hour. He should be given authority to alter the conditions. A man was employed in Walker building several years ago for the purpose but he had no authority to make changes and later the position was abolished.

"Another cause of poor ventilation," added Mrs. Richards, "especially in Rogers building, is the utter ignorance of the instructor in charge of the elementary principles of ventilation. Most instructors seem to think it beneath them to keep the class-rooms plentifully supplied with air. As most of the class-rooms are over crowded every hour in the day, it should be the duty of every man in charge of a lecture or recitation to see that proper air circulation, either by ventilators or windows is secured at all times. Most people are over timid about draught. The unbearable heat element could be eliminated if we could send a stream of air strong enough to blows papers off a table through a lecture room. But this would meet with still stronger opposition among the student and instructing staff."

"THE DOPESTER"

You better get out to-morrow in that cross-country handicap at W. Roxbury and run off some of that excess of turkey which you stuffed into yourself yesterday. Train leaves Back Bay Station at 2.22.

By the way, that cross-country handicap is going to be a good race and every one interested in this kind of sport should beout and take a part in it. There are also several excellent cups to be given and here is a good chance to get a little decoration for your "Den."

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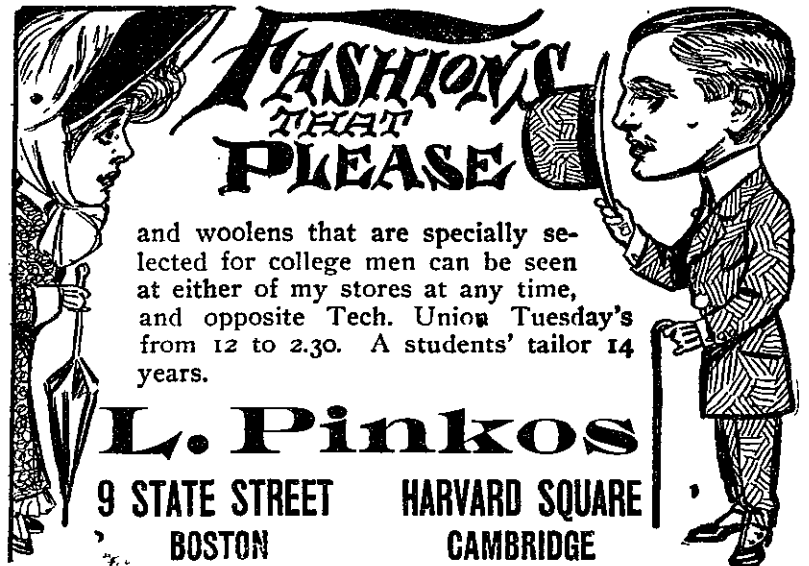
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DR. GEORGE A. GORDON

(Continued from page 1.)

But what can be the cause of these pitiable human failures. Firstly the vocational side of life is separated from the rest and given special attention to make it outstrip everything else, leaving the poor human man far behind. Take for example Steven Douglass—as a lawyer, and a politician, a vocational wonder and success, but as a man, a failure. The other cause for such failure is the underestimation of the human aspect of life.

Abraham Lincoln was deemed a simpleton by many of his contemporaries because he gave human interests their true value.

Dr. Gordon then narrowed his subject down to how it might affect young men such men as were present before him. "A man's vocation should be the servant of his life, but in no case should he accept a vocation, no matter how successful, that carried with it a human indignity. All the business success of today is made nearly at the sacrifice of one's integrity and one's soul. Make each side of your life the exponent of the other. In short, give humanity a chance—no one is all scientist or all scholar—every one was once caressed and fondled as a baby, a part of a family, later a citizen, part of the universe and under human obligations to that universe and the people around him. "Take a day off from being a scientist and on that day be a full man—full of the spirit of American citizenship. Consider Thanksgiving day the festival of our humanity. Recall the visions of your own homes—consider the best that come from such a home—come

TECH MAN WINS

Edward H. Guilford 1912, Vice-President of the Wireless Society, was granted the second prize of ten dollars at the Electrical Show in Mechanics Building. Three prizes were offered to be divided among electrical novelties and wireless instruments. Guilford was given the highest reward for wireless instruments competing among a dozen entries.

back from such a day part of a better—ampler, and happier nation. Again consider the self-sacrifice for you in that home—the visions and the tears in that home hoping that you may honor it all by a stainless and triumphant manhood. Even if you don't go to church live in that church of the living God which teaches you to battle your mind often in the manhood before you and to which you are under such obligations. Remember and cultivate your human interests as well as your vocational aims. "A man hoping to obtain success while making no account of his character is like a celluloid dog chasing an asbestos cat through Hell.

"Bath your mind often with the drops of humanity which stands back of your home, your people and to whom you owe an obligation. Think daily of your mother and father, your home and the responsibility placed upon you here in your work. In a word seek the faith that looks through death" were Doctor Gordons closing words to the students.

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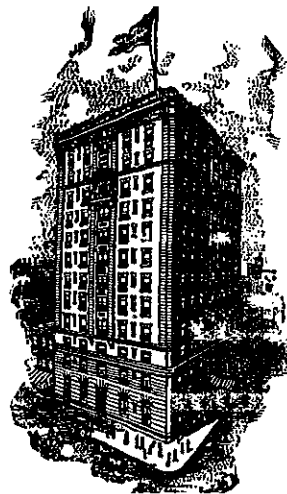
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Chap. XII are returned in the box in
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Dynamic Electric Machinery (661)
Problems due Nov. 20 are returned.
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